

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A photoreactive device comprising:
a semiconductor having a conduction band with a potential and being capable of producing electrons under the irradiation of light on said semiconductor; and
an oxidation-reduction material having a redox potential being positive compared with said potential of said conduction band,
wherein said electrons produced by said semiconductor are supplied into said oxidation-reduction material under the irradiation of light so that said oxidation-reduction material is reduced with the crystalline structure of said material converted for storing said electrons in said material, and
wherein said oxidation-reduction material is reduced in the presence of a cation.
2. (Cancelled)
3. (Original) The device of claim 1, wherein said oxidation-reduction material is an electrochromic material.
4. (Original) The device of claim 1, wherein said oxidation-reduction material is an oxide semiconductor which may be reduced to convert the crystalline structure of said oxide semiconductor to tungsten bronze structure.
5. (Original) The device of claim 1, comprising a substrate, a layer for storing electrons made of said oxidation-reduction material on said substrate, and a semiconductor layer made of said semiconductor on said substrate.
6. (Original) The device of claim 1, comprising a substrate, a layer for storing electrons made of said oxidation-reduction material on said substrate, and a porous semiconductor layer

made of said semiconductor on said layer for storing electrons.

7. (Original) The device of claim 1, comprising a formed body made from powder of said oxidation-reduction material and powder of said semiconductor.

8. (Currently Amended) The device of claim 1 [[2]], comprising a conductor of a cation.

9. (Original) The device of claim 8, wherein said conductor is substantially insoluble in water.

10. (Original) The device of claim 1 for use in gaseous phase.

11. (Original) The device of claim 1, wherein the reflectance to visible light of said oxidation-reduction material may be changed when light is irradiated on said device.

12. (Original) The device of claim 1 for detecting light intensity of light irradiated on said device based on the change of a property of said oxidation-reduction material.

13. (Original) The device of claim 1 for detecting a humidity based on the change of a property of said oxidation-reduction material depending on said humidity.

14. (Original) A translucent member comprising a main body made of a translucent material and said photoreactive device according to claim 1 fixed to said main body.

15. (Original) The member of claim 14, wherein said member is a window.

16. (Original) An ornament comprising said photoreactive device according to claim 1.

Claims 17-43 (Cancelled).

44. (New) The device of claim 1, comprising an anticorrosive device for preventing the

corrosion of a metal material, wherein said electrons stored in said oxidation-reduction material are supplied from said oxidation-reduction material into said metal material after terminating the irradiation of light.

45. (New) The device of claim 1 for reducing oxygen molecules, wherein said electrons are supplied from said oxidation-reduction material into oxygen molecules to reduce said oxygen molecules after terminating the irradiation of light.

46. (New) The device of claim 1 for controlling the growth of microorganisms, wherein said oxidation-reduction material comprises a metal oxide which may be reduced to form tungsten bronze crystalline structure, and wherein said metal oxide is reduced and then oxidized to reduce oxygen molecules present near said metal oxide so that the growth of microorganisms is controlled.